

a first and a second opposed sheet electrodes disposed within the housing and being respectively electrically connected to the terminals;
a separator located between the electrodes; and
an electrolyte intermediate the electrodes for allowing charge to be stored at the electrodes.

43. An energy storage device according to claim 41 wherein the capacitor is flexible and wrapped about the housing.

44. An energy storage device according to claim 41 wherein the electrochemical device and the capacitor each include a power density and an energy density, wherein the energy density of the electrochemical device is greater than the energy density of the capacitor and the power density of the electrochemical device is less than the power density of the capacitor.

45. An energy storage device including:
a housing having two terminals; and
a first capacitor forming part of the housing and connected to the terminals.

46. An energy storage device according to claim 45 wherein the housing has a form factor corresponding or being related to battery size designations N, AAAA, AAA, AA, C or D.

47. An energy storage device according to claim 45 wherein the capacitor is an electric double layer supercapacitor including:

a capacitor housing;
a first and a second opposed sheet electrodes disposed within the housing and being respectively electrically connected to the terminals;
a separator located between the electrodes; and
an electrolyte intermediate for allowing charge transfer between the electrodes.

48. An energy storage device including:
a housing having an interior and an exterior where the interior defines a cavity;

two terminals disposed on or adjacent to the exterior of the housing for electrically engaging with respective terminals of a load that requires a predetermined load current;

an electrochemical device disposed within the cavity and being electrically connected to the terminals for providing a first current to the load; and

a capacitor disposed within the cavity and being electrically connected to the terminals in parallel with the electrochemical device for providing a second current to the load, whereby the first current and the second currents collectively sum to the predetermined load current.

49. An energy storage device according to claim 48 wherein the electrochemical device includes an anode and a cathode that are respectively fixedly electrically connected to the terminals by way of an anode tab and a cathode tab, and the capacitor includes a positive electrode and a negative electrode that are respectively fixedly electrically connected to the terminals by way of a positive electrode tab and a negative electrode tab.

50. An energy storage device according to claim 48 wherein the capacitor is an electric double layer supercapacitor including:

a capacitor housing;

a first and a second opposed sheet electrodes disposed within the housing and being respectively electrically connected to the terminals;

a separator located between the electrodes; and

an electrolyte intermediate for allowing charge transfer between the electrodes.
